

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18
Stylesheet Version v18.0

Title of Invention	Simulating Euclidean wiring directions using Manhattan and diagonal directional wires																																																																																																														
<div>Application Number: 10/043808</div> <div>Confirmation Number: 9068</div> <div>First Named Applicant: Steven Teig</div> <div>Attorney Docket Number: SPLX.P0008</div> <div>Art Unit: 2818</div> <div>Examiner: Dao H. Nguyen</div> <div>Search string: (4782193 or 4855253 or 5541005 or 5635736 or 5637920 or 5640327 or 5646830 or 5689433 or 5784289 or 5801385 or 5811863 or 5822214 or 5880969 or 5889329 or 5980093 or 6111756 or 6260183 or 6263475 or 6301686 or 6307256 or 6316838 or 6324674 or 6412097 or 6448591 or 6516455 or 6645842 or 20010009031 or 20020069397 or 20030025205).pn.</div> <div>US Patent Documents</div> <div>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</div> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td><input checked="" type="checkbox"/></td><td>1</td><td>4782193</td><td>1988-11-01</td><td>Linsker</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>2</td><td>4855253</td><td>1989-08-08</td><td>Weber</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>3</td><td>5541005</td><td>1996-07-30</td><td>Bezama et al.</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>4</td><td>5635736</td><td>1997-06-03</td><td>Funaki et al.</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>5</td><td>5637920</td><td>1997-06-10</td><td>Loo</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>6</td><td>5640327</td><td>1997-06-17</td><td>Ting</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>7</td><td>5646830</td><td>1997-07-08</td><td>Nagano</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>8</td><td>5689433</td><td>1997-11-18</td><td>Edwards</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>9</td><td>5784289</td><td>1998-07-21</td><td>Wang</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>10</td><td>5801385</td><td>1998-09-01</td><td>Endo et al.</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>11</td><td>5811863</td><td>1998-09-22</td><td>Rostoker et al.</td><td></td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>12</td><td>5822214</td><td>1998-10-13</td><td>Rostoker et al.</td><td></td><td></td><td></td></tr></tbody></table>								init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass	<input checked="" type="checkbox"/>	1	4782193	1988-11-01	Linsker				<input type="checkbox"/>	2	4855253	1989-08-08	Weber				<input type="checkbox"/>	3	5541005	1996-07-30	Bezama et al.				<input type="checkbox"/>	4	5635736	1997-06-03	Funaki et al.				<input type="checkbox"/>	5	5637920	1997-06-10	Loo				<input type="checkbox"/>	6	5640327	1997-06-17	Ting				<input type="checkbox"/>	7	5646830	1997-07-08	Nagano				<input type="checkbox"/>	8	5689433	1997-11-18	Edwards				<input type="checkbox"/>	9	5784289	1998-07-21	Wang				<input type="checkbox"/>	10	5801385	1998-09-01	Endo et al.				<input type="checkbox"/>	11	5811863	1998-09-22	Rostoker et al.				<input checked="" type="checkbox"/>	12	5822214	1998-10-13	Rostoker et al.			
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	21	6316838	2001-11-13	Ozawa et al.	B1
	22	6324674	2001-11-27	Andreev et al.	B2
	23	6412097	2002-06-25	Kikuchi et al.	B1
	24	6448591	2002-09-10	Juengling	B1
	25	6516455	2003-02-04	Teig et al.	B1
dlr	26	6645842	2003-11-11	Igarashi et al.	B2

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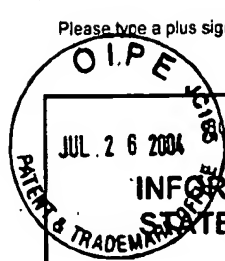
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dlr	3	20030025205	2003-02-06	Shively	A1		

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				First Named Inventor	Steven Teig
				Group Art Unit	2818
				Examiner Name	Dao Nguyen
Sheet	1	of	2	Attorney Docket Number	SPLX.P0008

FOREIGN PATENT DOCUMENTS								
Examiner* Initials	Cite No. ¹	Foreign Patent Document			Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code (if known) ⁵				
dh	1.	JP	04-000677		01-06-1992	Fujiwara et al.	with English translation of Abstract;	
dh	2.	JP	2000-082743		03-21-2000	Igarashi et al.	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓

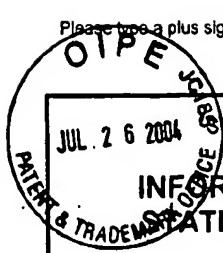
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dh	3.	Chen et al., Optimal Algorithms for Bubble Sort Based Non-Manhattan Channel Routing, May 1994, Computer-Aided Design of Integrated Circuits and Systems, IEEE Transactions Volume: 13 Issues, pp. 603-609.			
	4.	Chen, H. et al., Physical Planning of On-Chip Interconnect Architectures, 2002, IEEE, International Conference, pp. 30-35			
	5.	Cong J. et al., DUNE - A Multilayer Gridless Routing System, May 2001, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, vol 20, iss. 5, pp. 633-647.			
	6.	Dion J. et al., Contour: A Tile-based Gridless Router, March 1995, Digital Western Research Laboratory, research Report 95/3, pp.1-22			
	7.	Morton, P. B. et al., An Efficient Sequential Quadratic Programming Formulation of Optimal Wire Spacing for Cross-Talk Noise Avoidance Routing, UCSC-CRL-99-05, March 10, 1999.			
dh	8.	NN71091316, Use of Relatively Diagonal And Rectangular Wiring Planes in Multilayer Packages, September 1971, IBM Technical Disclosure Bulletin, Vol. No. 14, Issue No. 4, pp. 1316-1317.			

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dh	9.	Royle, J. et al., Geometric Compaction in One Dimension for Channel Routing, 24 th ACM/IEEE Design Automation Conference, 1987, pp 140-145.	
dh	10.	Schiele, W. et al., A Gridless Router for Industrial Design Rule, 27 th ACM-IEEE Design Automation Conference, pp. 626-631, 1990.	
dh	11.	Tseng H. et al., A Gridless Multilayer Router for Standard Cell Circuits Using CTM Cells, Oct. 1999, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, vol 18, iss. 10, pp. 1462-1479.	

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Examiner Name	Date
<i>W. Davis</i>	08/04/04